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Blough, D.M.; Sullivan, G.F.;
Reliability, IEEE Transactions on
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Fendley, A.; Marpet, M.I.; Medoff, H.;
Biomedical Engineering Conference, 1995., Proceedings of the 1995 Fourteenth South
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1   Lossless Online Bayesian Bagging
Herbert K. H. Lee, Merlise A. Clyde
December 2004 **The Journal of Machine Learning Research**, Volume 5

Full text available: 📄 pdf(154.18 KB)   Additional Information: full citation, abstract, index terms

Bagging frequently improves the predictive performance of a model. An online version has recently been introduced, which attempts to gain the benefits of an online algorithm while approximating regular bagging. However, regular online bagging is an approximation to its batch counterpart and so is not lossless with respect to the bagging operation. By operating under the Bayesian paradigm, we introduce an online Bayesian version of bagging which is exactly equivalent to the batch Bayesian version ...

2   Toward memory-based reasoning
Craig Stanfill, David Waltz
December 1986 **Communications of the ACM**, Volume 29 Issue 12

Full text available: 📄 pdf(1.66 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The intensive use of memory to recall specific episodes from the past—rather than rules—should be the foundation of machine reasoning.

3   System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli
April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 2

Full text available: 📄 pdf(385.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

4   Research track: Empirical comparisons of various voting methods in bagging
Kelvin T. Leung, D. Stott Parker
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on**

Knowledge discovery and data mining

Full text available: 📄 pdf(172.36 KB)   Additional Information: full citation, abstract, references, index terms

Finding effective methods for developing an ensemble of models has been an active research area of large-scale data mining in recent years. Models learned from data are often subject to some degree of uncertainty, for a variety of resoans. In classification, ensembles of models provide a useful means of averaging out error introduced by individual classifiers, hence reducing the generalization error of prediction.The plurality voting method is often chosen for bagging, because of its simplicity ...

Keywords: ensemble classification, model reconciliation, voting

5 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: 📄 pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

6 Probabilistic inductive inference
L. Pitt
April 1989 **Journal of the ACM (JACM)**, Volume 36 Issue 2

Full text available: 📄 pdf(4.04 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Inductive inference machines construct programs for total recursive functions given only example values of the functions. Probabilistic inductive inference machines are defined, and for various criteria of successful inference, it is asked whether a probabilistic inductive inference machine can infer larger classes of functions if the inference criterion is relaxed to allow inference with probability at least p, $(0 < p < 1)$ as opposed ...

7 Tree induction vs. logistic regression: a learning-curve analysis
Claudia Perlich, Foster Provost, Jeffrey S. Simonoff
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: 📄 pdf(263.37 KB)   Additional Information: full citation, abstract, references, citings, index terms

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

8 Session 3C: evolution, adaptation and learning I: Mutual online concept learning for multiple agents
Jun Wang, Les Gasser
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1**

Full text available: 📄 pdf(229.94 KB)   Additional Information: full citation, abstract, references, citings, index

terms

To create multi-agent systems that are both adaptive and open, agents must collectively learn to generate and adapt their own concepts, ontologies, interpretations, and even languages actively in an online fashion. A central issue is the potential lack of any pre-existing concept to be learned; instead, agents may need to collectively design a concept that is evolving as they exchange information. This paper presents a framework for mutual online concept learning (MOCL) in a shared world. MOCL e ...

Keywords: language evolution, mutual learning, online concept learning, ontology evolution, perceptron algorithm

9 ## Social choice theory and distributed decision making
Arnold B. Urken
April 1988 **ACM SIGOIS Bulletin , Conference Sponsored by ACM SIGOIS and IEEECS TC-OA on Office information systems**, Volume 9 Issue 2-3

Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, citings, index terms

Strategies of distributed decision making based on social choice theory can be used to create a balance between organizational complexity and uncertainty. Although Group Decision Support Systems (GDSS's) have included options for making human collective choices, their design has not been based on optimal rules. Social choice theory can also be used to improve the reliability of decisions made by nodes in distributed computer networks. Three examples illustrate the application of this theory ...

10 ## Breaking the probability ½ barrier in FIN-type learning
Robert Daley, Bala Kalyanasundaram, Mahendran Velauthapillai
July 1992 **Proceedings of the fifth annual workshop on Computational learning theory**

Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings, index terms

We show that for every probabilistic FIN-type learner with success ratio greater than 24/49, there is another probabilistic FIN-type learner with success ratio 1/2 that simulates the former. We will also show that this simulation result is tight. We obtain as a consequence of this work a characterization of FIN-type team learning with success ratio between 24/49 and 1/2. We conjecture that the learning capabilities of probabilistic FIN-type learners for probabilities beginning ...

11 ## Drifting games
Robert E. Schapire
July 1999 **Proceedings of the twelfth annual conference on Computational learning theory**
Full text available: pdf(1.11 MB)   Additional Information: full citation, references, citings, index terms

12 ## DISSERTATIONS: ABSTRACTS OF INTEREST
Susanne M. Humphrey, Ben Shneiderman
April 1992 **ACM SIGCHI Bulletin**, Volume 24 Issue 2

Full text available: pdf(2.16 MB)   Additional Information: full citation, abstract

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University Microfilms International, Dissertation Copies, Post Office Box 1794, Ann Arbor, MI 488106; telephone for U.S. (except Michigan, Hawaii, or Alask ...

13 Estimating lexical priors for low-frequency morphologically ambiguous forms
Harald Baayen, Richard Sproat
June 1996 **Computational Linguistics**, Volume 22 Issue 2

Full text available: pdf(848.85 KB)
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Additional Information: full citation, abstract, references, citings

Given a form that is previously unseen in a sufficiently large training corpus, and that is morphologically *n*-ways ambiguous (serves *n* different lexical functions) what is the best estimator for the lexical prior probabilities for the various functions of the form? We argue that the best estimator is provided by computing the relative frequencies of the various functions among the *hapax legomena*---the forms that occur exactly once in a corpus; in particular, a hapax-based es ...

14 Resource bounded next value and explanatory identification: learning automata, patterns and polynomials on-line
Susanne Kaufmann, Frank Stephan
July 1997 **Proceedings of the tenth annual conference on Computational learning theory**

Full text available: pdf(2.41 MB)   Additional Information: full citation, references, citings, index terms

15 PANEL: research and development issues in software reliability engineering
Michael Lyu
April 1991 **ACM SIGSOFT Software Engineering Notes**, Volume 16 Issue 2

Full text available: pdf(797.10 KB)   Additional Information: full citation, index terms

16 Filtering high quality text for display on raster scan devices
J. Kajiya, M. Ullner
August 1981 **ACM SIGGRAPH Computer Graphics , Proceedings of the 8th annual conference on Computer graphics and interactive techniques**, Volume 15 Issue 3

Full text available: pdf(719.11 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recently several investigators have studied the problem of displaying text characters on grey level raster scan displays. Despite arguments suggesting that grey level displays are equivalent to very high resolution bitmaps, the performance of grey level displays has been disappointing. This paper will show that much of the problem can be traced to inappropriate antialiasing procedures. Instead of the classical (sin x)/x filter, the situation calls for a filter with characteristics matched b ...

17 Capabilities of fallible FINite learning
Robert Daley, Bala Kalyanasundaram, Mahendran Velauthapillai
August 1993 **Proceedings of the sixth annual conference on Computational learning theory**

Full text available: pdf(1.05 MB)   Additional Information: full citation, references, citings, index terms

18 Steady-state simulation of queueing processes: survey of problems and solutions

Krzysztof Pawlikowski
June 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 2

Full text available: ▨ pdf(4.75 MB)   Additional Information: full citation, abstract, references, citings, index terms

For years computer-based stochastic simulation has been a commonly used tool in the performance evaluation of various systems. Unfortunately, the results of simulation studies quite often have little credibility, since they are presented without regard to their random nature and the need for proper statistical analysis of simulation output data. This paper discusses the main factors that can affect the accuracy of stochastic simulations designed to give insight into the steady-st ...

19 Automatic parsing for content analysis
Frederick J. Damerau
June 1970 **Communications of the ACM**, Volume 13 Issue 6

Full text available: ▨ pdf(4.07 MB)   Additional Information: full citation, abstract, references, citings

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

20 Salient stills
Laura Teodosio, Walter Bender
February 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 1

Full text available: ▨ pdf(31.14 MB)   Additional Information: full citation, abstract, references, index terms

Salient Stills are a class of images that reflect the aggregation of the temporal changes that occur in a moving-image sequence with the salient features of individual frames preserved. They convey the intended expression of an entire series of moving frames---a visual summary of camera and object movements. The original frames, which may include variations in focal length or field of view, or moving objects, are combined to create a single still image. The still image may have multiresolution p ...

Keywords: Salient stills, media transcoding, semantic image processing, shape-time photography, synopsis mosaic, timeprints, video database, video mosaic, video summary

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